

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 1-6, 8, and 10-13 are pending in the present application, Claims 1-6, 8, and 10 having been amended, and Claims 7 and 9 having been canceled without prejudice or disclaimer. Support for the present amendment is believed to be self-evident from the originally filed specification.¹ Applicants respectfully submit that no new matter is added.

In the outstanding Office Action, Claims 1-3 and 5-8 were rejected under 35 U.S.C. §103(a) as unpatentable over Masui (U.S. Patent No. 6,809,952) in view of Hayaashi et al. (U.S. Patent Publication No. 2005/0009564, hereinafter Hayaashi); Claim 4 was rejected under 35 U.S.C. §103(a) as unpatentable over Masui in view of Hayaashi, and further in view of Arisawa (U.S. Patent No. 7,016,432, hereinafter Arisawa '432); and Claims 9-13 were rejected under 35 U.S.C. §103(a) as unpatentable over Masui in view of Hayaashi, and further in view of Arisawa (U.S. Patent Publication No. 2009/0237144, hereinafter Arisawa '144).

With respect to the rejection of Claim 1 as unpatentable over Masui and Hayaashi, Applicants respectfully submit that the amendment to Claim 1 overcomes this ground of rejection. Amended Claim 1 recites, *inter alia*,

an antenna configured to carry out communication
with an external non-contact IC card and an external
wireless reader/writer, said antenn including a loop of coil
with plural windings...

second transmission means for transmitting a
second transmission signal to the external non-contact IC
card through the antenna while the semiconductor
integrated circuit is in a wireless reader/writer mode of
operation; and

¹ See, for example, Fig. 10, and paragraphs [0105] and [0106] of the originally filed specification.

a capacitor connecting the second transmission means to a center tap of the antenna, wherein when the second transmission means drives the antenna, current from the second transmission means flows only to half of the windings of the loop of coil of the antenna and another current flows through a remaining portion of the loop of coil by electromagnetic induction.

Masui and Hayaashi, when taken in proper combination, do not disclose or suggest every element of amended Claim 1.

Page 6 of the Office Action states “Masui fails to teach the other end of the second transmission means is connected to an intermediate tap of the first antenna.” Thus, Masui as modified by Hayaashi does not disclose the claimed “a capacitor coupled between the second transmission means and a center tap of the antenna.”

The outstanding Office Action relies upon Arisawa '432 to describe an end of a second transmission means being connected to an intermediate tap of antenna. However, Fig. 20 of Arisawa does not disclose a capacitor between TX (D (R-C)) and intermediate tap T3. Thus, Arisawa does not disclose the claimed “a capacitor coupled between the second transmission means and a center tap of the antenna.”

Furthermore, Masui, Hayaashi, and Arisawa '432 do not disclose the claimed “wherein when the second transmission means drives the antenna, current from the second transmission means flows only to half of the windings of the loop of coil of the antenna and another current flows through a remaining portion of the loop of coil by electromagnetic induction.”

Moreover, Applicants note that the invention defined by Claim 1 is advantageous. As explained in the specification, the structure and functionality of Claim 1 improves transmission efficiency.

In view of the above-noted distinctions, Applicants respectfully submit that amended Claim 1 (and any claims dependent thereon) patentably distinguishes over Masui, Hayaashi,

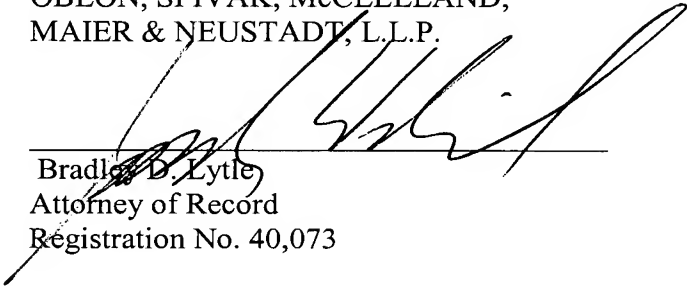
and Arisawa '432 when taken in proper combination. Claim 8 recites feature analogous to those of Claim 1. Thus, Claim 8 patentably distinguishes over Masui, Hayaashi, and Arisawa '432 when taken in proper combination, for at least the reasons stated for Claim 1.

Addressing each of the further rejections, each of the further rejections is also traversed by the present response as no teachings in any of the further cited references to Arisawa '144 can overcome the above-noted deficiencies of Masui, Hayaashi, and Arisawa '432. Accordingly, it is respectfully requested that those rejections be withdrawn for similar reasons as discussed above.

Consequently, in light of the above discussion and in view of the present amendment, the present application is believed to be in condition for allowance and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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